

Title (en)

Method of treating the surface of a medical device for blood coagulation diagnosis, and such a device

Title (de)

Verfahren zur Oberflächenbehandlung einer medizinischen Vorrichtung für die Untersuchung der Blutgerinnungsfunktion, sowie eine dergestaltete Vorrichtung

Title (fr)

Procédé de traitement de surface d'un dispositif médical pour le diagnostic de la coagulation sanguine, et un tel dispositif

Publication

**EP 1627725 B1 20081217 (EN)**

Application

**EP 05017564 A 20050812**

Priority

GB 0418474 A 20040812

Abstract (en)

[origin: EP1627725A2] To increase the adhesion strength of coagulated blood on an untreated surface (30) by increasing the surface interaction of blood-inherent components (32,33,34) like fibrin/fibrinogen and thrombocytes it is described to treat the surface by exposing it to ionized atoms or molecules thereby reaching at a plasma treated surface (31). The surface treatment according to the invention is applied on plastic disposables used in blood diagnostics (e.g. haemostasis analysis) as well as medical implants like artery sealings. The improved blood clot adhesion results in higher diagnostic security due to reduced measurement failure (e.g., for patients with increased thrombocyte content) and in better significance of special tests (e.g., hyperfibrinolysis diagnosis).

IPC 8 full level

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CPC (source: EP KR)

**A61B 18/20** (2013.01 - KR); **B29C 59/142** (2013.01 - EP); **B29C 59/165** (2013.01 - EP); **C08J 7/123** (2013.01 - EP); **G01N 11/162** (2013.01 - EP); **G01N 33/49** (2013.01 - KR); **G01N 33/4905** (2013.01 - EP); **G01N 33/86** (2013.01 - KR)

Cited by

CN103398922A; CN107703286A; FR2991771A1; EP2154511A3; US10473674B2; US10288630B2; WO2010072620A1; WO2008093216A1; US10816559B2; US10295554B2; US11085938B2; EP2202517A1; CN102265151A; EP2523000A1; EP2615454A1; US10843185B2; US11691142B2; WO2008075181A3; US8383045B2; US10539579B2; US8637320B2; US9429562B2; US9897618B2; EP2154511A2; US8322195B2; KR101460746B1; WO2018091099A1; EP4375664A2; US10175225B2; US11327069B2; US11719688B2; US8857244B2; US9086423B2; US9110084B2; US9285377B2; US9739789B2; US9915671B2; US10746750B2; US10996230B2; US11061038B2; US11131680B2; US11360106B2; US11768211B2; US11879899B2; US11892459B2

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